

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

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1. (amended herein) An antigenic peptide of less than 100 amino acids having an antigenic subsequence selected from the group consisting of X-KSSGKLISL-X (SEQ ID NOS: 1 and 31), ~~X-CNGRLYCGP-X (SEQ ID NOS: 2 and 32), X-GTKLVCFAA-X (SEQ ID NOS: 3 and 33),~~ EATVVYPAP (SEQ ID NO: 7), TKTLIYGGA (SEQ ID NO: 8), KRIVIGPQT (SEQ ID NO: 9), CCGCLTCSV (SEQ ID NO: 10), SGRLYCHESW (SEQ ID NO: 11), FALSHYDKP (SEQ ID NO: 12), RPTLRFQGA (SEQ ID NO: 13), EGEFCKSSGKLISLCGDPAK (SEQ ID NO: 14), EGEFCQTKLVCFAAAGDPAK (SEQ ID NO: 15), EGEFCCNGRLYCQPCGDPAK (SEQ ID NO: 16), EGEFCCAGQLTCSVCGDPAK (SEQ ID NO: 17), CSGRLYCHESWC (SEQ ID NO: 18), and TKTLIYQGA (SEQ ID NO: 19), wherein X is independently an amino acid or sequence of amino acids with the proviso that X is not identical to the amino acid or amino acids naturally flanking the subsequences in human immunodeficiency virus-1 (HIV-1).

2. (amended herein) An antigenic peptide of claim 1, wherein the antigenic subsequence is ~~selected from the group consisting of X-KSSGKLISL-X (SEQ ID NOS: 1 and 31),~~ and wherein X is independently an amino acid that is not identical to the amino acid naturally flanking the subsequence in HIV-1 ~~X-CNGRLYCGP-X (SEQ ID NOS: 2 and 32), and X-GTKLVCFAA-X (SEQ ID NOS: 3 and 33).~~

3. withdrawn

4. withdrawn

5. (amended herein) An antigenic peptide of claim 1, wherein the antigenic subsequence is ~~selected from the group consisting of~~ EGEFCKSSGKLISLCGDPAK (SEQ ID

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NO: 14), ~~EGEFCQTKLVCFAAAGDPAK (SEQ ID NO: 15), and~~
~~EGEFCCNGRLYCQPCGDPAK (SEQ ID NO: 16).~~

B1
amended

6. (amended herein) A vaccine for ~~protecting against HIV-1 infection~~ comprising an antigenic peptide of less than 100 amino acids having an antigenic subsequence selected from the group consisting of X-KSSGKLISL-X (SEQ ID NOS: 1 and 31), ~~X-CNGRLYCGP-X (SEQ ID NOS: 2 and 32), X-GTKLVCFAA-X (SEQ ID NOS: 3 and 33),~~ EATVVYPAP (SEQ ID NO: 7), TKTLIYGGA (SEQ ID NO: 8), KRIVIGPQT (SEQ ID NO: 9), CCGCLTCSV (SEQ ID NO: 10), SGRLYCHESW (SEQ ID NO: 11), FALSHYDKP (SEQ ID NO: 12), RPTLRFQGA (SEQ ID NO: 13), ~~EGEFCKSSGKLISLCGDPAK (SEQ ID NO: 14),~~ ~~EGEFCQTKLVCFAAAGDPAK (SEQ ID NO: 15),~~ EGEFCCNGRLYCQPCGDPAK (SEQ ID NO: 16), ~~EGEFCCAGQLTCSVCGDPAK (SEQ ID NO: 17),~~ CSGRLYCHESWC (SEQ ID NO: 18), and ~~TKTLIYQGA (SEQ ID NO: 19)~~ wherein X is independently an amino acid or sequence of amino acids with the proviso that X is not identical to the amino acid or amino acids naturally flanking the subsequences in HIV-1.

7. (amended herein) A vaccine of claim 5 6, wherein the antigenic subsequence is ~~selected from the group consisting of X-KSSGKLISL-X (SEQ ID NOS: 1 and 31), X-CNGRLYCGP-X (SEQ ID NO: 2 and 32), and X-GTKLVCFAA-X (SEQ ID NOS: 3 and 33)~~ and wherein X is independently an amino acid that is not identical to the amino acid naturally flanking the subsequence in HIV-1.

8. (withdrawn)

9. (amended herein) A vaccine of claim 6, wherein the antigenic subsequence is ~~selected from the group consisting of~~ EGEFCKSSGKLISLCGDPAK (SEQ ID NO: 14), EGEFCQTKLVCFAAAGDPAK (SEQ ID NO: 15), and EGEFCCNGRLYCQPCGDPAK (SEQ ID NO: 16).

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10. A peptide of claim 1, wherein the antigenic subsequence comprises an antigenic determinant that does not give rise to HIV-1-specific antibodies to more than twelve other antigenic determinants on HIV-1.

Claims 11-23 (withdrawn)
